

GOME Daily Report

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1 - General Info

1.1 - Report Summary

| Item | Value |
|-------------------------------------|--|
| Report Version | GOMEver3_3 |
| Report of Day | 25-AUG-2010 |
| Start Time of First Product | 00:04:13 |
| Stop Time of Last Product | 23:37:16 |
| Number of EGOI Products analysed | 32 |
| Number of corrupted products | 1 |
| Anomalies and/or Special Operations | No solar calibration measurements available due to the execution of an ERS2 orbit manoeuvre. Narrow Swath continued from previous day, stop orbit: 80242 |

1.2 - List of received products

| Name | Date | Time |
|------------------------|-------------|--------------|
| EGOI_100825GSEP3587.E2 | 25-AUG-2010 | 02:26:05.112 |
| EGOI_100825GSEP3612.E2 | 25-AUG-2010 | 04:06:31.225 |
| EGOI_100825GSEP3619.E2 | 25-AUG-2010 | 05:48:55.850 |
| EGOI_100825HLEP7178.E2 | 25-AUG-2010 | 13:53:28.811 |
| EGOI_100825HLEP7187.E2 | 25-AUG-2010 | 21:52:19.735 |
| EGOI_100825HLEP7192.E2 | 25-AUG-2010 | 23:23:18.792 |
| EGOI_100825KSEP0397.E2 | 25-AUG-2010 | 07:47:01.069 |
| EGOI_100825KSEP0421.E2 | 25-AUG-2010 | 09:26:58.679 |
| EGOI_100825KSEP0452.E2 | 25-AUG-2010 | 11:06:35.289 |

| | | |
|------------------------|-------------|--------------|
| EGOI_100825KSEP0481.E2 | 25-AUG-2010 | 12:45:50.896 |
| EGOI_100825KSEP0508.E2 | 25-AUG-2010 | 14:24:44.003 |
| EGOI_100825KSEP0536.E2 | 25-AUG-2010 | 16:02:29.597 |
| EGOI_100825KSEP0565.E2 | 25-AUG-2010 | 17:40:25.698 |
| EGOI_100825KSEP0597.E2 | 25-AUG-2010 | 19:18:20.297 |
| EGOI_100825KSEP0628.E2 | 25-AUG-2010 | 20:58:19.411 |
| EGOI_100825KSEP0652.E2 | 25-AUG-2010 | 22:40:44.033 |
| EGOI_100825MAEP6092.E2 | 25-AUG-2010 | 09:34:43.709 |
| EGOI_100825MAEP6107.E2 | 25-AUG-2010 | 11:14:20.322 |
| EGOI_100825MAEP6123.E2 | 25-AUG-2010 | 22:32:58.982 |
| EGOI_100825MMEP3610.E2 | 25-AUG-2010 | 00:04:13.248 |
| EGOI_100825MMEP3619.E2 | 25-AUG-2010 | 01:46:07.870 |
| EGOI_100825MMEP3630.E2 | 25-AUG-2010 | 08:33:58.355 |
| EGOI_100825MMEP3637.E2 | 25-AUG-2010 | 11:55:11.587 |
| EGOI_100825MMEP3650.E2 | 25-AUG-2010 | 18:33:32.013 |
| EGOI_100825MMEP3659.E2 | 25-AUG-2010 | 21:52:45.236 |
| EGOI_100825MSEP7163.E2 | 25-AUG-2010 | 00:41:37.474 |
| EGOI_100825MSEP7178.E2 | 25-AUG-2010 | 11:19:41.372 |
| EGOI_100825MSEP7203.E2 | 25-AUG-2010 | 12:59:56.979 |
| EGOI_100825MSEP7232.E2 | 25-AUG-2010 | 22:28:52.959 |
| EGOI_100825SGEP7666.E2 | 25-AUG-2010 | 03:03:45.842 |
| EGOI_100825SGEP7672.E2 | 25-AUG-2010 | 04:44:02.956 |
| EGOI_100825SGEP7678.E2 | 25-AUG-2010 | 14:01:43.862 |

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1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS | 80235 | 25-AUG-2010 | 07:45:19.977 | 07:47:01.068 | 101.09100 |
| KS | 80236 | 25-AUG-2010 | 09:24:55.280 | 09:26:58.678 | 123.39800 |
| KS | 80237 | 25-AUG-2010 | 11:04:30.407 | 11:06:35.289 | 124.88200 |
| KS | 80238 | 25-AUG-2010 | 12:43:47.538 | 12:45:50.896 | 123.35800 |
| KS | 80239 | 25-AUG-2010 | 14:22:36.519 | 14:24:44.002 | 127.48300 |
| KS | 80240 | 25-AUG-2010 | 16:00:23.188 | 16:02:29.597 | 126.40900 |
| KS | 80241 | 25-AUG-2010 | 17:38:18.197 | 17:40:25.697 | 127.50000 |
| KS | 80242 | 25-AUG-2010 | 19:16:39.544 | 19:18:20.296 | 100.75200 |
| KS | 80243 | 25-AUG-2010 | 20:56:45.545 | 20:58:19.410 | 93.865000 |
| KS | 80244 | 25-AUG-2010 | 22:39:04.972 | 22:40:44.032 | 99.060000 |
| GS | 80233 | 25-AUG-2010 | 04:04:57.219 | 04:06:31.225 | 94.006000 |
| MS | 80231 | 25-AUG-2010 | 00:40:14.141 | 00:41:37.474 | 83.333000 |
| MS | 80237 | 25-AUG-2010 | 11:17:31.029 | 11:19:41.371 | 130.34200 |
| MS | 80238 | 25-AUG-2010 | 12:57:51.169 | 12:59:56.978 | 125.80900 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| MS | 80244 | 25-AUG-2010 | 22:27:13.254 | 22:28:52.958 | 99.704000 |
| MA | 80236 | 25-AUG-2010 | 09:33:01.274 | 09:34:43.708 | 102.43400 |
| MM | 80230 | 25-AUG-2010 | 00:03:09.003 | 00:04:13.247 | 64.244000 |
| MM | 80237 | 25-AUG-2010 | 11:53:43.828 | 11:55:11.586 | 87.758000 |
| MM | 80241 | 25-AUG-2010 | 18:31:30.640 | 18:33:32.013 | 121.37300 |
| MM | 80243 | 25-AUG-2010 | 21:50:36.021 | 21:52:45.235 | 129.21400 |
| SG | 80232 | 25-AUG-2010 | 03:01:37.770 | 03:03:45.842 | 128.07200 |
| SG | 80232 | 25-AUG-2010 | 03:08:14.368 | 03:15:05.082 | 410.71400 |
| SG | 80233 | 25-AUG-2010 | 04:42:31.563 | 04:44:02.956 | 91.393000 |
| SG | 80233 | 25-AUG-2010 | 04:48:28.483 | 04:52:19.319 | 230.83600 |
| SG | 80238 | 25-AUG-2010 | 14:00:35.362 | 14:01:43.862 | 68.500000 |

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1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO | 80230 | 24-AUG-2010 | 23:52:19.125 | 00:06:48.354 | 869.22900 |
| HO | 80231 | 25-AUG-2010 | 01:33:31.005 | 01:45:08.441 | 697.43600 |
| GS | 80231 | 25-AUG-2010 | 00:48:42.894 | 00:57:26.791 | 523.89700 |
| BE | 80232 | 25-AUG-2010 | 02:50:22.148 | 03:03:44.530 | 802.38200 |
| MM | 80232 | 25-AUG-2010 | 03:28:11.580 | 03:35:25.401 | 433.82100 |
| MI | 80232 | 25-AUG-2010 | 02:21:12.586 | 02:31:51.261 | 638.67500 |
| CM | 80232 | 25-AUG-2010 | 03:57:48.330 | 04:10:11.653 | 743.32300 |
| BE | 80233 | 25-AUG-2010 | 04:30:39.497 | 04:41:02.457 | 622.96000 |
| MM | 80233 | 25-AUG-2010 | 05:11:05.071 | 05:16:52.014 | 346.94300 |
| MI | 80233 | 25-AUG-2010 | 03:59:05.034 | 04:11:57.533 | 772.49900 |
| MM | 80234 | 25-AUG-2010 | 06:52:44.021 | 06:59:37.081 | 413.06000 |
| KS | 80234 | 25-AUG-2010 | 06:06:28.814 | 06:12:13.969 | 345.15500 |
| CM | 80234 | 25-AUG-2010 | 05:42:08.654 | 05:44:49.524 | 160.87000 |
| JO | 80234 | 25-AUG-2010 | 06:34:33.508 | 06:43:24.014 | 530.50600 |
| MA | 80235 | 25-AUG-2010 | 07:55:59.130 | 08:01:45.735 | 346.60500 |
| JO | 80235 | 25-AUG-2010 | 08:10:00.071 | 08:25:00.926 | 900.85500 |
| MM | 80236 | 25-AUG-2010 | 10:13:41.431 | 10:24:53.618 | 672.18700 |
| JO | 80236 | 25-AUG-2010 | 09:52:27.584 | 10:01:56.748 | 569.16400 |
| HO | 80237 | 25-AUG-2010 | 12:03:02.250 | 12:16:30.724 | 808.47400 |
| HO | 80238 | 25-AUG-2010 | 13:42:05.676 | 13:56:32.610 | 866.93400 |
| MM | 80238 | 25-AUG-2010 | 13:33:32.458 | 13:46:15.790 | 763.33200 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| SG | 80238 | 25-AUG-2010 | 14:00:35.362 | 14:07:31.788 | 416.42600 |
| BE | 80239 | 25-AUG-2010 | 14:06:58.852 | 14:20:23.830 | 804.97800 |
| HO | 80239 | 25-AUG-2010 | 15:23:29.994 | 15:30:49.089 | 439.09500 |
| MM | 80239 | 25-AUG-2010 | 15:13:05.488 | 15:25:44.820 | 759.33200 |
| MI | 80239 | 25-AUG-2010 | 14:41:30.803 | 14:50:38.761 | 547.95800 |
| GS | 80239 | 25-AUG-2010 | 14:34:26.851 | 14:45:24.785 | 657.93400 |
| BE | 80240 | 25-AUG-2010 | 15:49:31.146 | 15:57:56.863 | 505.71700 |
| MM | 80240 | 25-AUG-2010 | 16:52:22.545 | 17:04:54.424 | 751.87900 |
| MI | 80240 | 25-AUG-2010 | 16:19:01.549 | 16:32:11.409 | 789.86000 |
| GS | 80240 | 25-AUG-2010 | 16:13:07.082 | 16:26:58.435 | 831.35300 |
| CM | 80240 | 25-AUG-2010 | 16:21:46.011 | 16:34:10.546 | 744.53500 |
| GS | 80241 | 25-AUG-2010 | 17:53:35.725 | 18:03:24.139 | 588.41400 |
| CM | 80241 | 25-AUG-2010 | 18:04:52.836 | 18:08:28.101 | 215.26500 |
| MM | 80242 | 25-AUG-2010 | 20:10:47.283 | 20:23:30.701 | 763.41800 |
| MA | 80242 | 25-AUG-2010 | 19:13:16.670 | 19:21:17.611 | 480.94100 |
| JO | 80242 | 25-AUG-2010 | 20:30:06.070 | 20:45:01.157 | 895.08700 |
| HO | 80243 | 25-AUG-2010 | 21:46:15.819 | 21:54:40.215 | 504.39600 |
| MA | 80243 | 25-AUG-2010 | 20:48:34.175 | 21:02:17.067 | 822.89200 |
| JO | 80243 | 25-AUG-2010 | 22:10:39.807 | 22:22:04.566 | 684.75900 |
| HO | 80244 | 25-AUG-2010 | 23:21:18.968 | 23:35:29.598 | 850.63000 |
| MM | 80244 | 25-AUG-2010 | 23:31:17.288 | 23:43:08.218 | 710.93000 |

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1.5 - List of corrupted products

| Station | Orbit | Time |
|---------|-------|--------------|
| GS | 80223 | 04:06:31.225 |

2 - Instrument Indicators and Daily Plots

2.1 - Instrument Indicators Status

| Indicator | Value |
|----------------------------------|-------|
| MPH Product Confidence | OK |
| SPH Product Confidence | OK |
| Command Word Echo Summary | OK |
| Instrument Status 1A | OK |
| Instrument Status 1B | OK |
| Instrument Status 2 | OK |
| Integration Times Channel 1 | OK |
| Co-Adding and Cluster Mode Flags | OK |
| Integration Times Band 2A | OK |

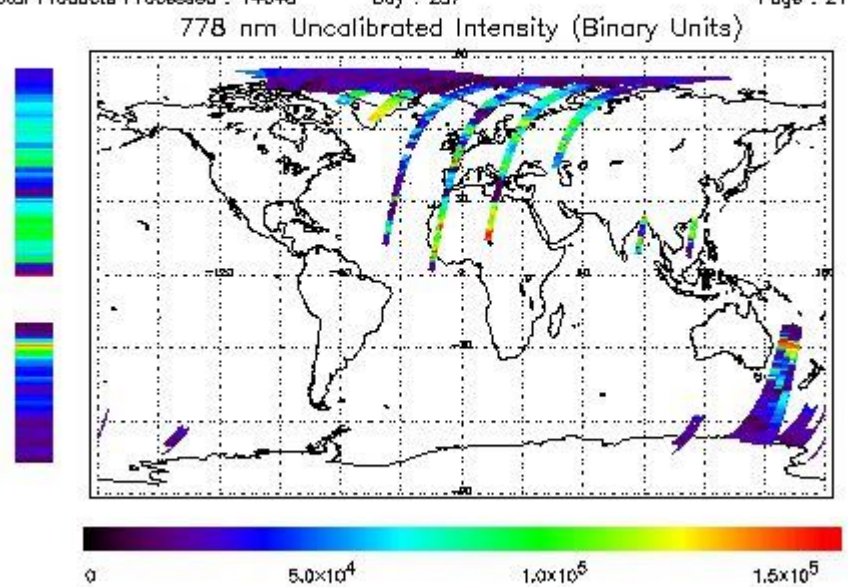
| | |
|--------------------------------------|----|
| Integration Times Band 2B | OK |
| Integration Times Band 3 | OK |
| Integration Times Band 4 | OK |
| Scan Mirror position | OK |
| Polarization Detectors | OK |
| FPA Temperatures A | OK |
| FPA Temperaturas B | OK |
| Charge Amp Temperatures | OK |
| Other Temperatures A | OK |
| DDHU Temperatures | OK |
| Optical Bench Temperatures | OK |
| Other Temperatures B | OK |
| Calibration Lamp and Instr. Status 3 | OK |
| Scan Mirror and Motor Current | OK |
| Selected Temperature A | OK |
| Selected Temperature B | OK |
| Selected Temperature C | OK |
| Channel 1 Summation | OK |
| Channel 2 Summation | OK |
| Channel 4 Summation | OK |
| Log Pages | OK |
| 331/338 nm Uncal. Line Ratio | OK |
| Uncal. PMDs as RGB signal | OK |
| 780 nm Uncal. Intensity | OK |

2.2 - Daily Plots

The images linked below provide a quick check on the data coverage and instrument performance. All data are UNCALIBRATED. For the explanation see the [GOME Performance Legend](#)

NEAR IR Intensity

First Product : 25-AUG-2010 00:04:13.248 : ORBIT : 80230.6560
 Last Product : 25-AUG-2010 23:37:15.881 : ORBIT : 80244.7023
 Total Products Processed : 14648 Day : 237 Page : 21

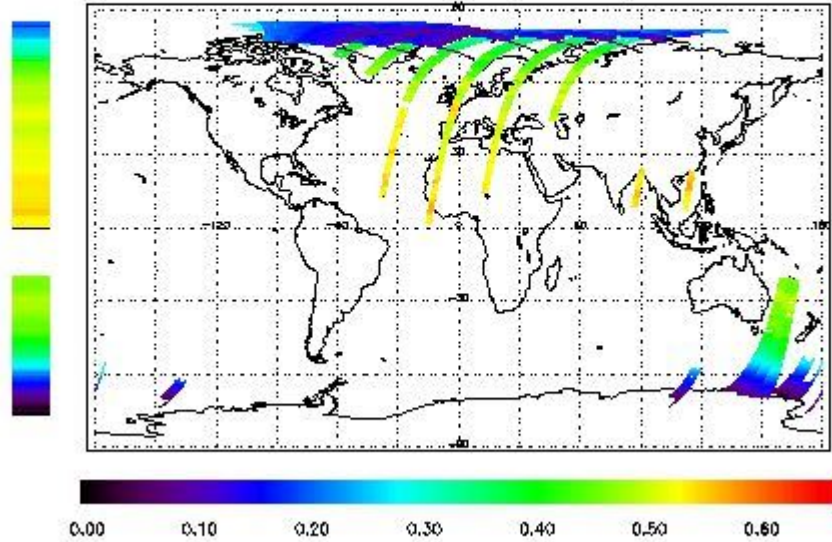


Ozone Line Ratio

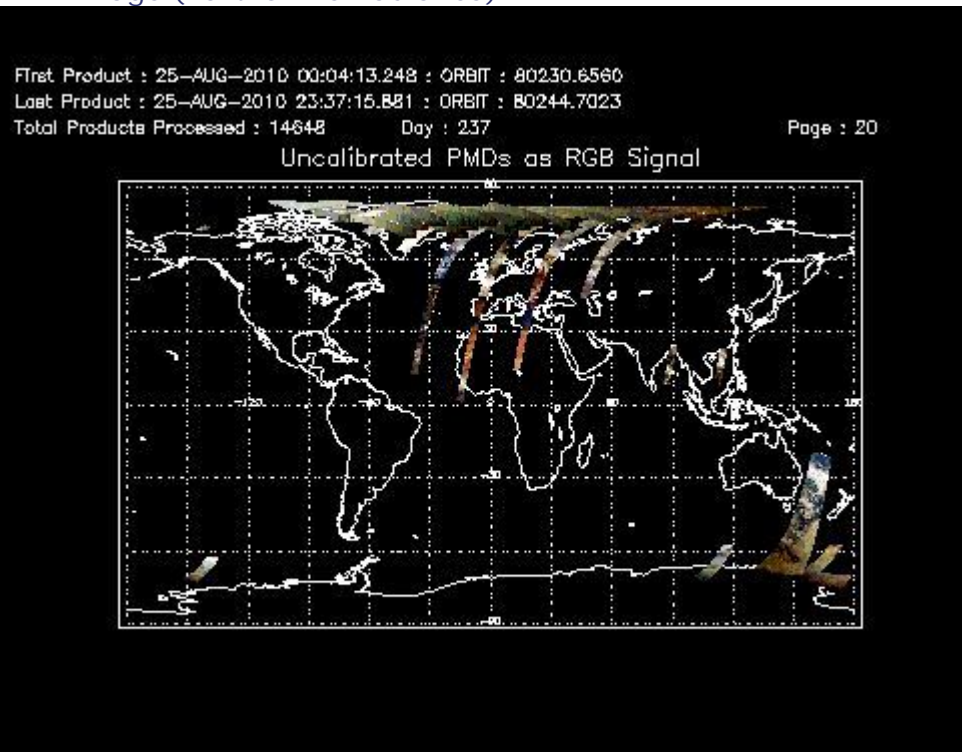
First Product : 25-AUG-2010 00:04:13.248 : ORBIT : 80230.6560
 Last Product : 25-AUG-2010 23:37:15.881 : ORBIT : 80244.7023
 Total Products Processed : 14648 Day : 237

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331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed



PMD Image (Earthshine Radiance)



3 - Instrument Calibration

3.1 - Solar Calibration (Daily/TST44)

| Daily(D)/TST44(T) | Start Time | End Time (T) | Orbit | Ground Station Visibility | Warm Detector Temperature (TST/44) | Max PMD Readout during solar calibration (BU set 2/12) |
|-------------------|------------|--------------|-------|---------------------------|------------------------------------|--|
| -- | -- | -- | -- | -- | -- | -- |

3.2 - Lamp Calibration (Quarterly/TST44)

| Quarterly(Q)/TST44(T) | Start Time | End Time | Orbit | Ground Station Visibility | Warm Detector Temperature (TST/44) | Lamp Instability Voltage (if any) (V) | Lamp Failure N. (if any) |
|-----------------------|------------|----------|-------|---------------------------|------------------------------------|---------------------------------------|--------------------------|
| -- | -- | -- | -- | -- | -- | -- | -- |

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4 - Instrument Anomalies

4.1 - Single Event Upset (SEU)

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility |
|------------|----------|-------------|-----------|---------------------------|
| -- | -- | -- | -- | -- |

4.2 - Instrument Off

| Start Time | End Time | Start Orbit | End Orbit | MPS Resumption | Ground Station Visibility |
|------------|----------|-------------|-----------|----------------|---------------------------|
| -- | -- | -- | -- | -- | -- |

4.3 - Cooler Switchings

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility | Max Temp. Ch 1 | Max Temp. Ch 2 | Max Temp. Ch 3 | Max Temp. Ch 4 |
|------------|----------|-------------|-----------|---------------------------|----------------|----------------|----------------|----------------|
| -- | -- | -- | -- | -- | -- | -- | -- | -- |

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5 - Instrument Operations

Additional Info

5.1 - Timeline Interruptions

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility |
|------------|----------|-------------|-----------|---------------------------|
| -- | -- | -- | -- | -- |

5.2 - TST44

| Start Time | Start Orbit | Ground Station Visibility |
|------------|-------------|---------------------------|
| -- | -- | -- |

5.3 - Power Cycle

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility |
|------------|----------|-------------|-----------|---------------------------|
| -- | -- | -- | -- | -- |

5.4 - Wrong Command Execution

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility |
|------------|----------|-------------|-----------|---------------------------|
| -- | -- | -- | -- | -- |

5.5 - Narrow Swath Timeline

| Start Time | End Time | Start Orbit | End Orbit |
|------------|----------|-------------|-----------|
| 19:30 | 19:00 | 80228 | 80242 |

5.6 - Seasonal Operations

| Start Time | End Time | Start Orbit | End Orbit |
|------------|----------|-------------|-----------|
| -- | -- | -- | -- |

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(1) The Solar/lamp calibration is carried out routinely or after an instrument switch-off or a power cycle (performed to reset the instrument when abnormal values are observed); in the latter cases the coolers are off and the temperature refers to the warm detectors